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## (54) MANUFACTURE OF CALCIUM PHOSPHATE COMPOUND FROM BONE OF ANIMAL

(57)Abstract:

**PURPOSE:** To obtain a calcium phosphate compound having superior compatibility with a living body and a superior capacity for forming a new bone by thermally decomposing and removing org. matter remaining in bones of an animal freed of fat and protein and by calcining the bones.

**CONSTITUTION:** Bones of an animal are immersed in boiling water for  $\geq$ about 24hr to remove fat and water-soluble protein. They are then degreased in an org. solvent such as acetone for  $\geq$ about 12hr and immersed in about 5W10% H<sub>2</sub>O<sub>2</sub> soln. for several days to remove water insoluble protein. The treated bones are heated to 400W700° C to thermally decompose and remove the remaining org. matter, and by calcining the bones at 700W1,300° C, a calcium phosphate compound is obtd. When the thermal decomposition temp. is below the lower limit, the org. matter is not thoroughly removed and remains as it is or as C. When the temp. exceeds the upper limit, the org. matter is liable to burn suddenly and exposes the bones to a high temp., and the resulting product particles are made larger and ununiform in size.

## LEGAL STATUS

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